## LENS APPARATUS

Cross-Reference to Related Applications

This application is entitled to the benefit of and incorporates by reference essential subject matter disclosed in International Application No. PCT/JP2003/009016 filed on July 7, 2003 and Japanese Patent Application No. 2002-209547 filed on July 18, 2002.

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## Technical Field

This invention generally relates to a lens device, and more particularly, to a lightweight and small-sized lens apparatus that can be mounted on a portable computer, a mobile telephone, or the like.

## Background Art

Conventionally, small-sized and lightweight lens apparatuses that are mounted on super compact cameras, mobile telephones, and the like are disclosed in Japanese Patent Application Publication No. 4-211215 and Japanese Patent Application Publication No. 6-88939. Each of the above-mentioned lens apparatuses is composed of one or two lenses. However, peripherals of the image are greatly deteriorated in quality, and accordingly, a satisfactory image quality cannot be obtained when the above-mentioned lens apparatus is employed in an image sensor for taking an image having a large number of pixels, more than one million pixels.

Generally, five or six lenses were required to obtain a sufficient resolution as a lens apparatus in use for a one-quarter-size image sensor, which is used for taking the image having one to two million pixels. It was thus difficult to downsize and reduce weight.

In addition, in the case where a field angle is wide, 50 degrees or more, it has extremely been difficult to correct distortion aberration or color aberration or coma aberration in the peripherals of the image.

Disclosure of the Invention

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It is a general object of the present invention to provide a lens apparatus that is capable of solving the above-mentioned drawbacks.